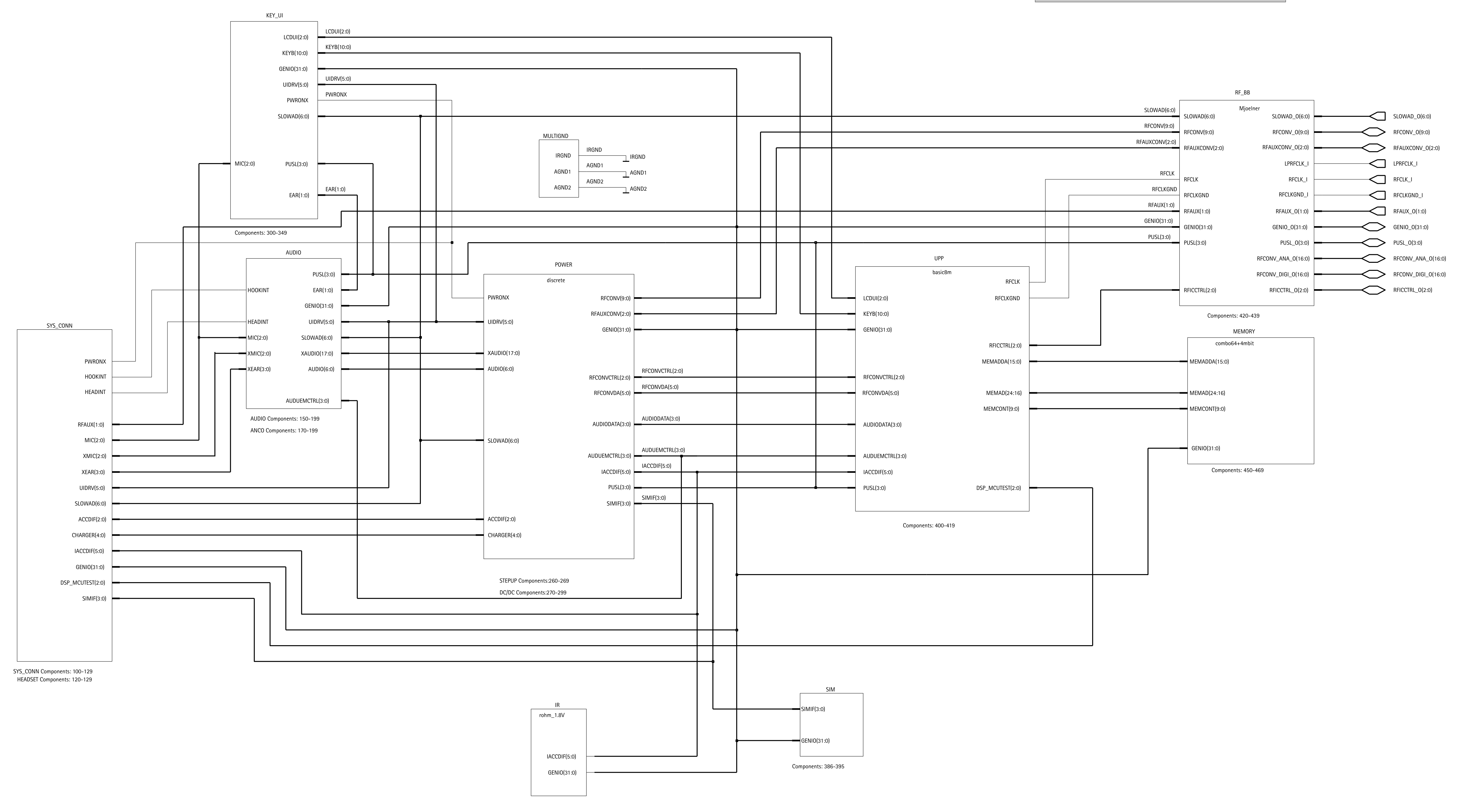
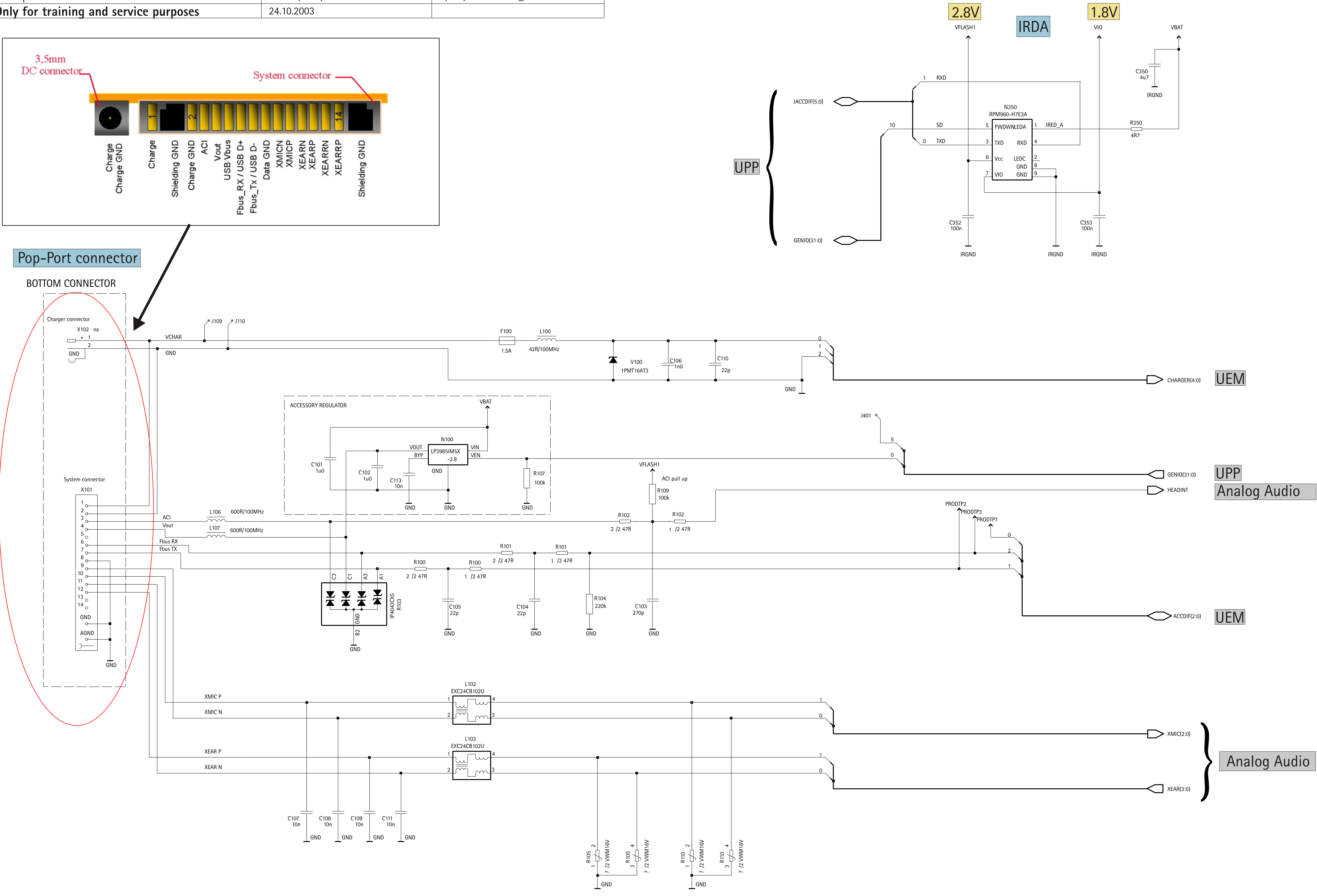
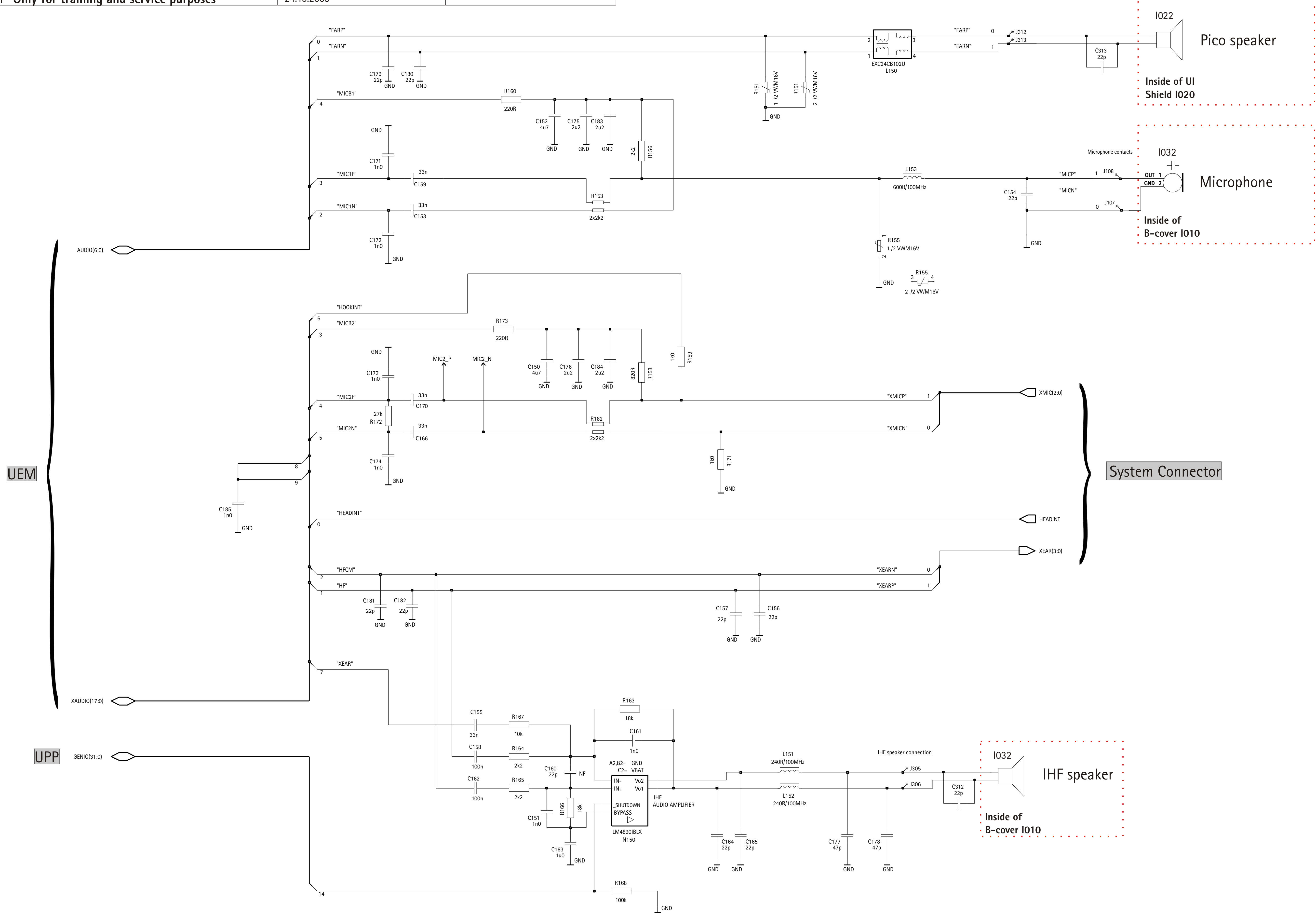
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Customer Care Europe, Middle East & Africa	DCT4 Common Baseband	Version 2.0 Approved	
SCCE Training Group	NPL-2 (6100)	(PCB) Version mx4_05	
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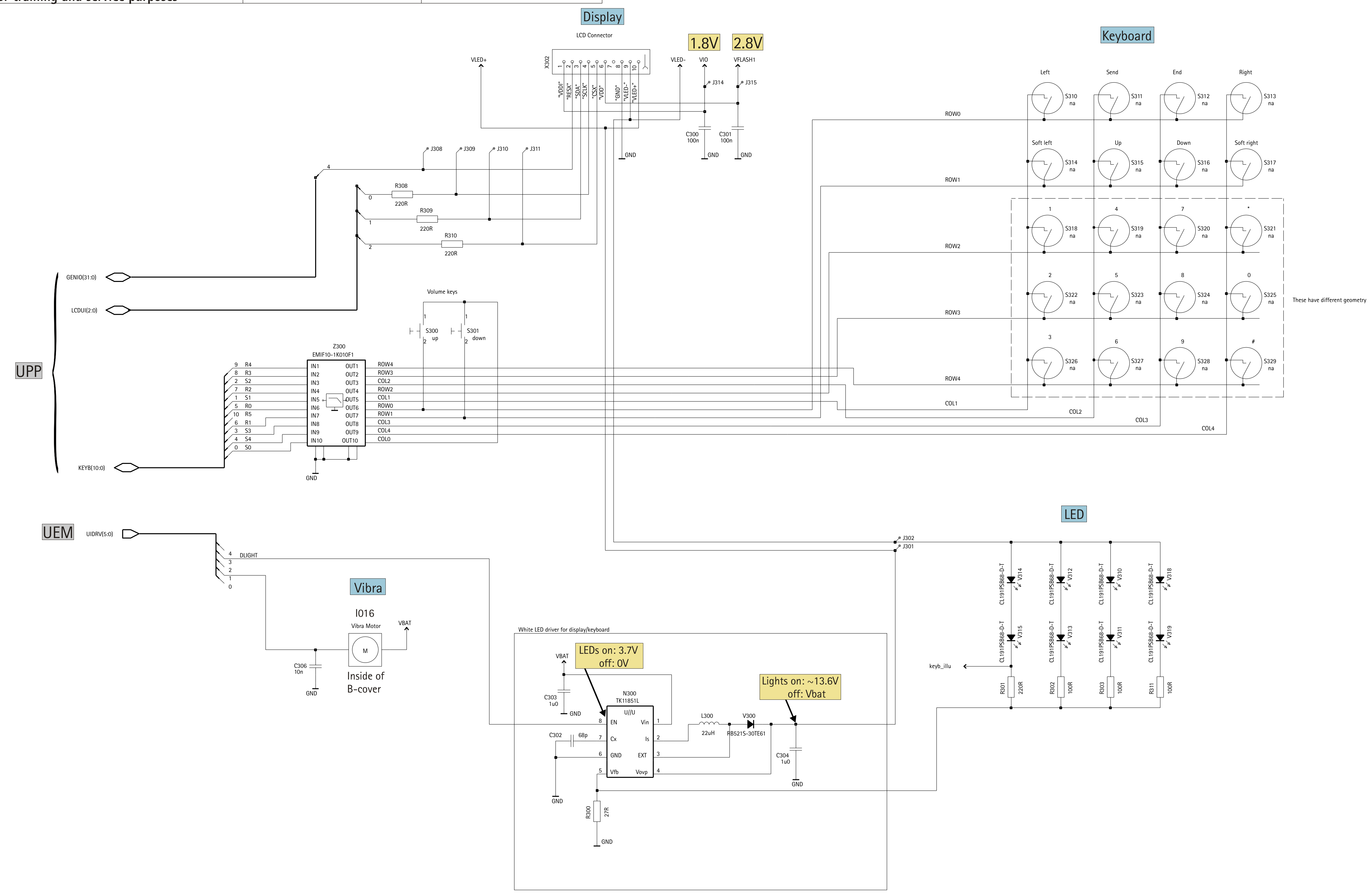




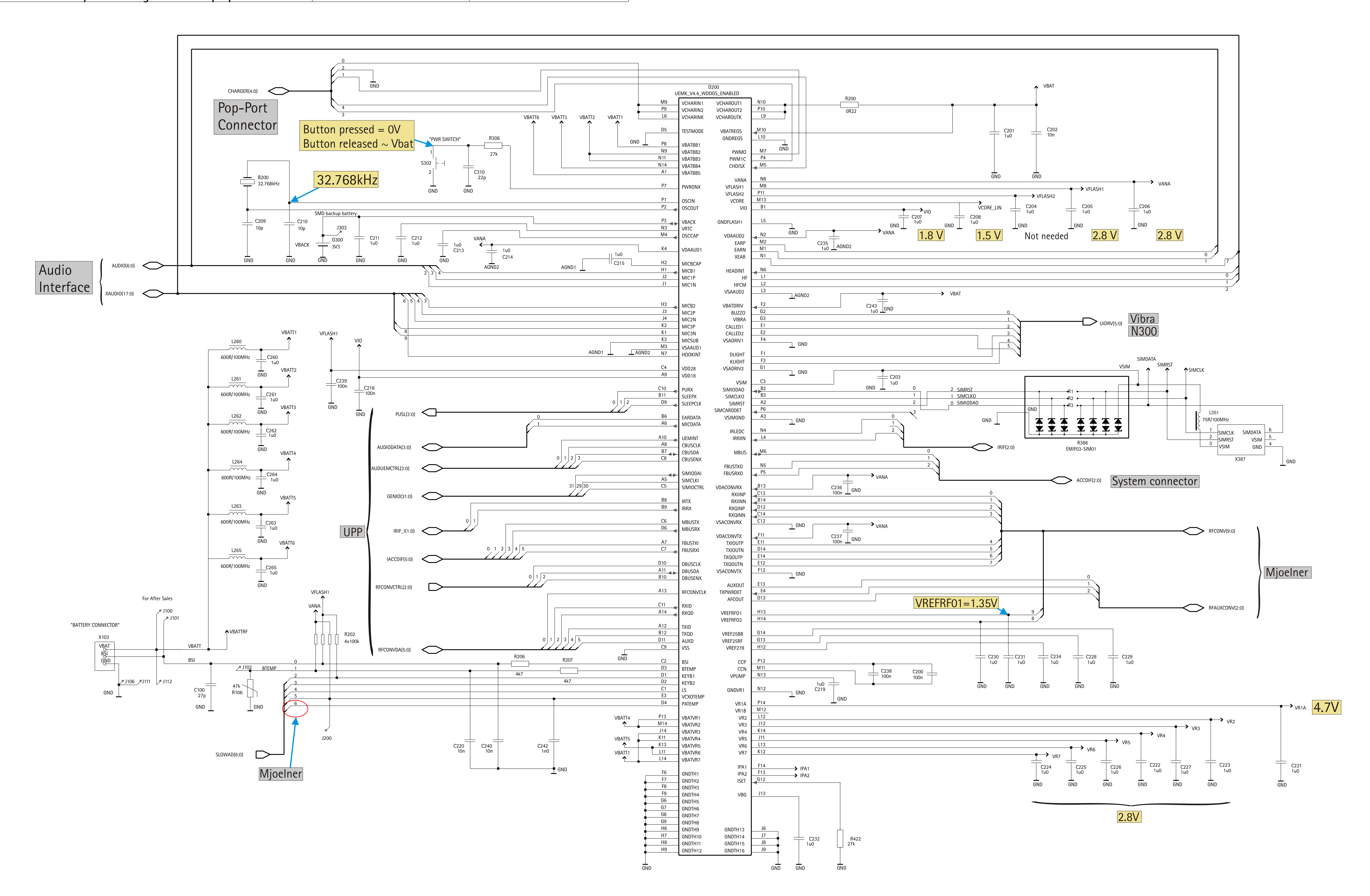
3,5mm DC connector
System connector
Charge
Charge GND
Charge
Shielding GND
Charge GND
ACI
Vout
USB Vbus
Fbus_RX / USB D+
Fbus_Tx / USB D-
Data GND
XMICN
XMICP
XEARN
XEARP
XEARRN
XEARRP
Shielding GND
Pop-Port connector
BOTTOM CONNECTOR
Charger connector
System connector
2.8V
IRDA
1.8V
UPP
UEM
UPP
Analog Audio
UEM
Analog Audio
ACCESSORY REGULATOR
VCHAR
CHARGER(4:0)
GENIO(31:0)
HEADINT
ACCDIF(2:0)
XMIC(2:0)
XEAR(3:0)
IACCDIF(5:0)
N350
RPM960-H7E3A
N100
LP3985IM5X
XMIC P
XMIC N
XEAR P
XEAR N



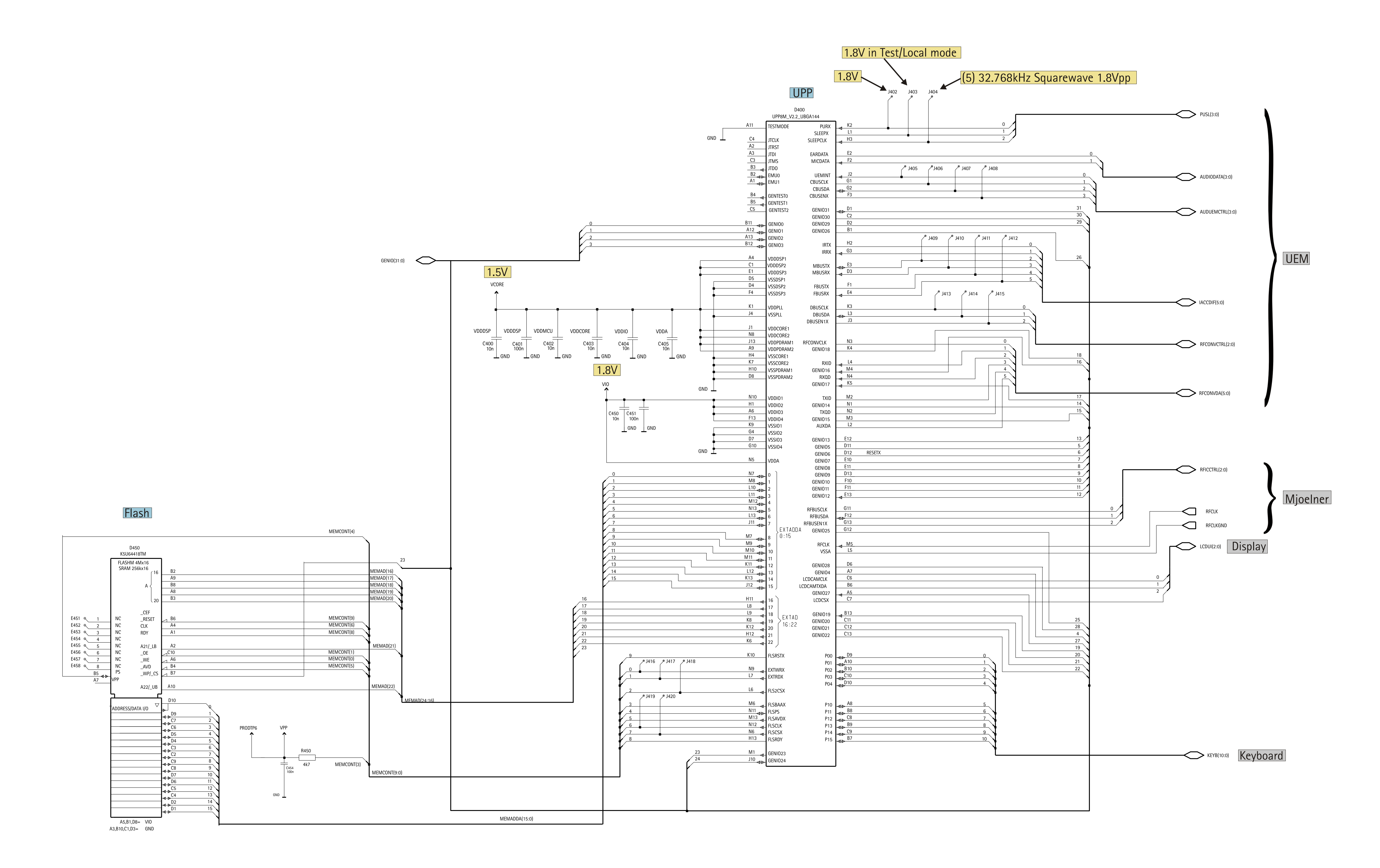
UEM
UPP
System Connector
Pico speaker
I022
Inside of UI Shield I020
Microphone
I032
Inside of B-cover I010
IHF speaker
I032
Inside of B-cover I010
AUDIO(6:0)
XAUDIO(17:0)
GENIO(31:0)
XMIC(2:0)
HEADINT
XEAR(3:0)
Microphone contacts
IHF speaker connection
EXC24CB102U
L150
LM4890IBLX
N150
IHF AUDIO AMPLIFIER
"EARP"
"EARN"
"MICB1"
"MIC1P"
"MIC1N"
"HOOKINT"
"MICB2"
"MIC2P"
"MIC2N"
"HEADINT"
"HFCM"
"HF"
"XEAR"
"XMICP"
"XMICN"
"XEARN"
"XEARP"
"MICP"
"MICN"



Display
LCD Connector
1.8V
2.8V
Keyboard
UPP
UEM
Vibra
I016
Vibra Motor
Inside of B-cover
LED
White LED driver for display/keyboard
LEDs on: 3.7V off: 0V
Lights on: ~13.6V off: Vbat
Volume keys
These have different geometry
Z300 EMIF10-1K010F1
N300 TK11851L
GENIO(31:0)
LCDUI(2:0)
KEYB(10:0)
UIDRV(5:0)



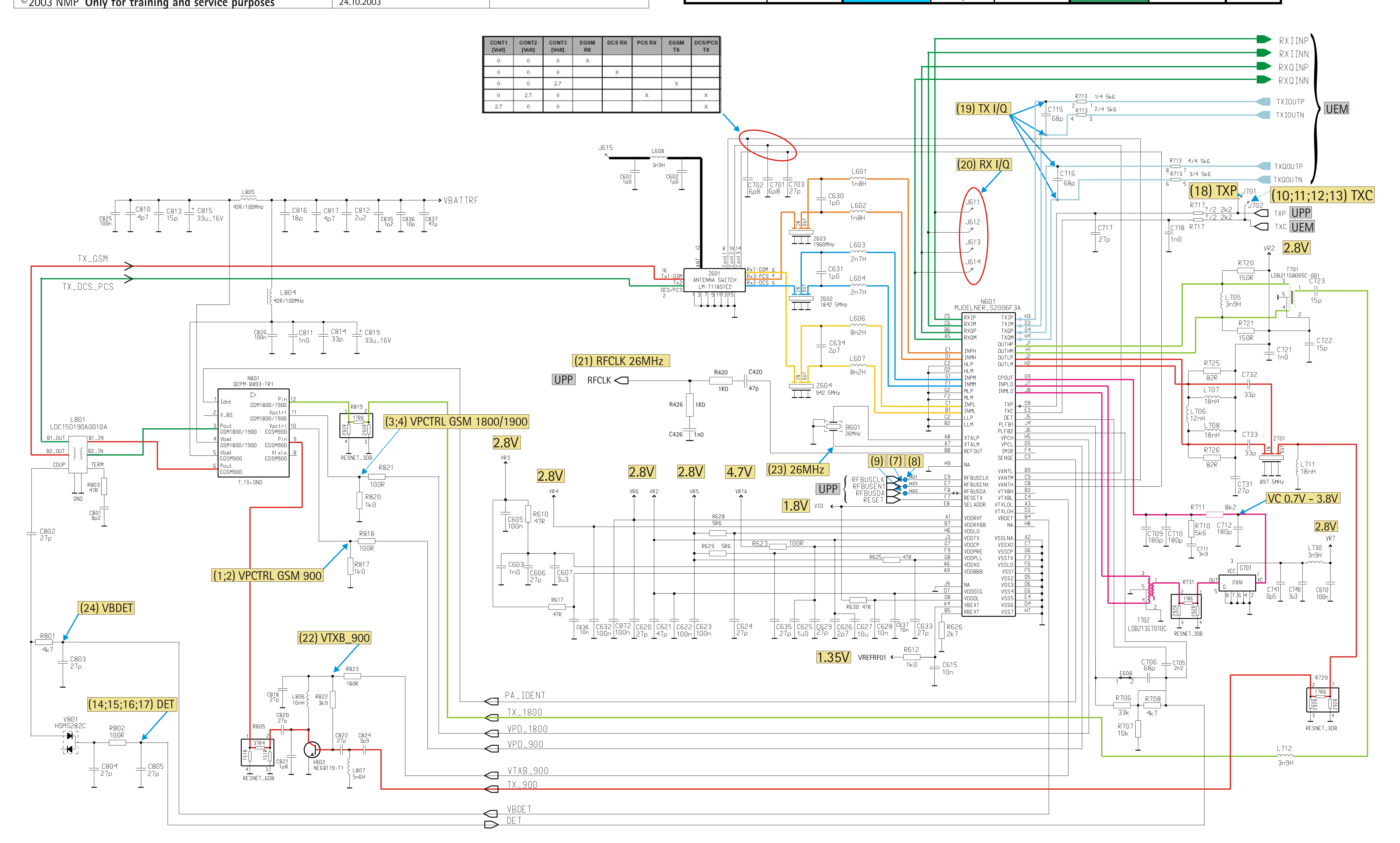
Pop-Port Connector
Button pressed = 0V
Button released ~ Vbat
32.768kHz
Audio Interface
UPP
Mjoelner
Vibra N300
System connector
VREFRF01=1.35V
1.8 V
1.5 V
Not needed
2.8 V
2.8 V
4.7V
2.8V
D200
UEMK_V4.4_WDOGS_ENABLED



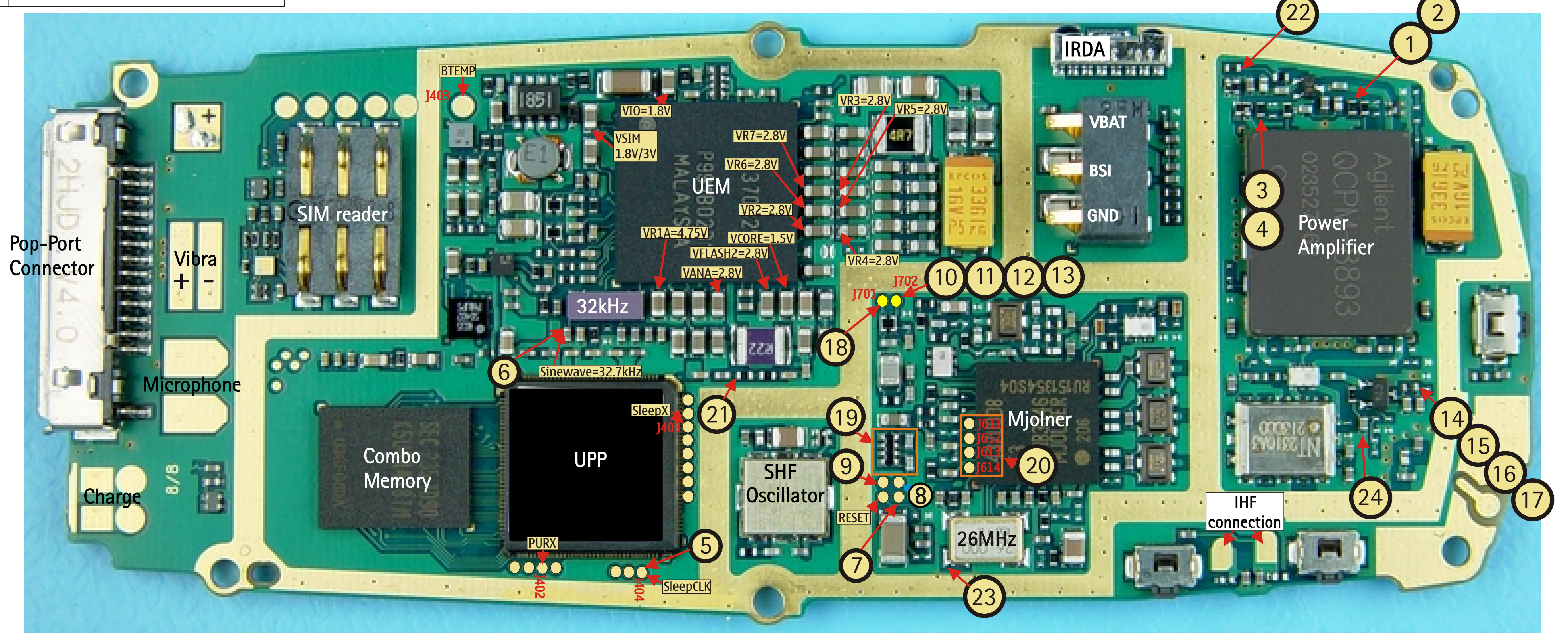
1.8V in Test/Local mode
1.8V
(5) 32.768kHz Squarewave 1.8Vpp
UPP
D400
UPP8M_V2.2_UBGA144
UEM
Mjoelner
Display
Keyboard
Flash
1.5V
VCORE
1.8V
VIO
D450
K5U6441BTM
FLASHM 4Mx16
SRAM 256kx16
PUSL(3:0)
AUDIODATA(3:0)
AUDUEMCTRL(3:0)
IACCDIF(5:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
RFICCTRL(2:0)
RFCLK
RFCLKGND
LCDUI(2:0)
KEYB(10:0)
GENIO(31:0)
MEMADDA(15:0)
MEMCONT(9:0)
PRODTP6
VPP
R450
4k7

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Customer Care Europe, Middle East & Africa	RF Schematics	Version 2.0 Approved	
SCCE Training Group	NPL-2 (6100)	(PCB) Version mx4_05	
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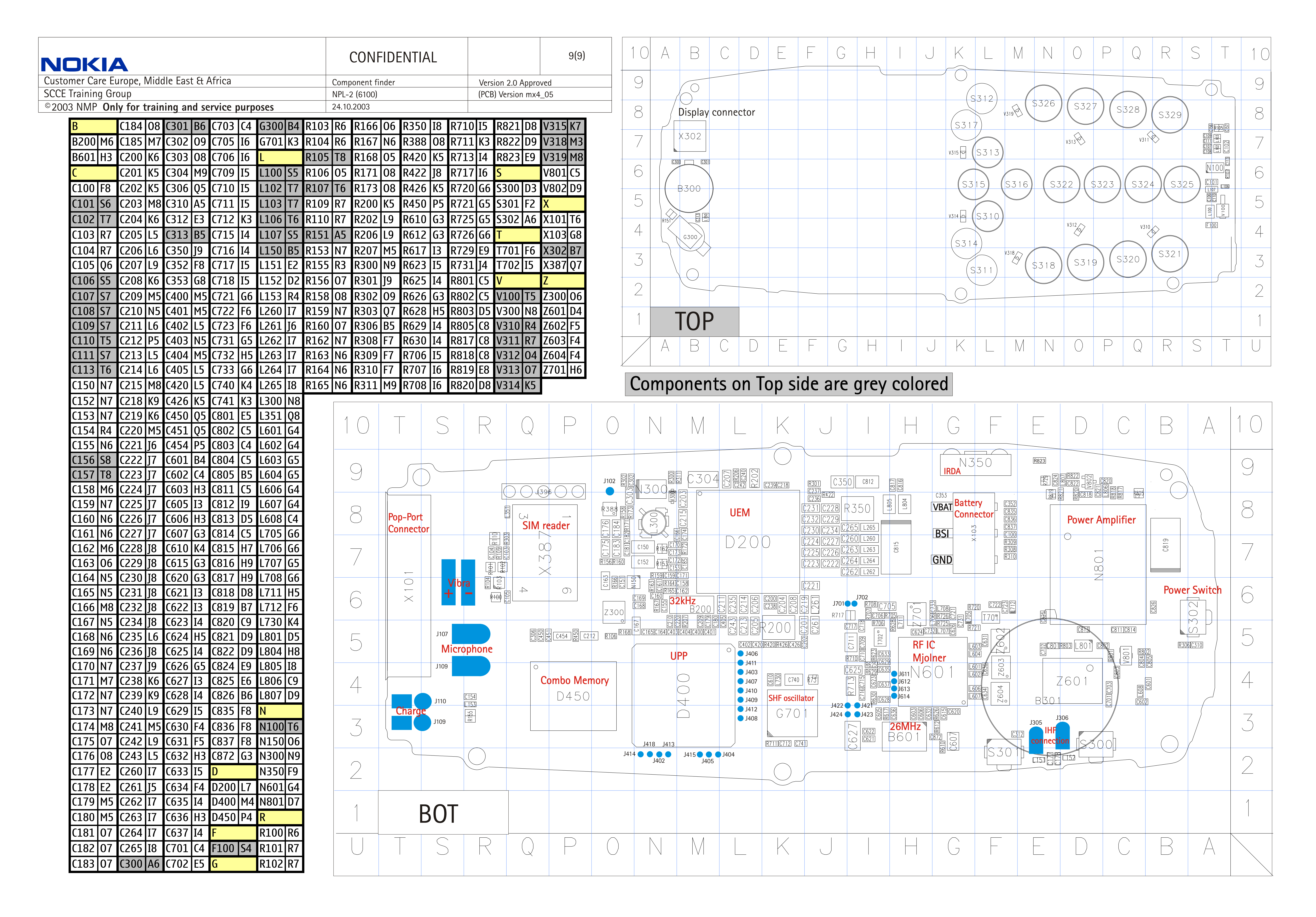
Band	Channel	RX	VC/RX	VCO/RX	TX	VCO/TX	VC/TX
GSM 900	37	942,4MHz	~2,58V	3769,6MHz	897,4MHz	3589,6MHz	~1,8V
GSM 1800	700	1842,8MHz	~2,2V	3685,6MHz	1747,8MHz	3495,6MHz	~1,4V
GSM 1900	661	1960MHz	~3,2V	3920MHz	1880MHz	3760MHz	~2,54V



CONT1 [Volt]	CONT2 [Volt]	CONT3 [Volt]	EGSM RX	DCS RX	PCS RX	EGSM TX	DCS/PCS TX
0	0	0	X				
0	0	0		X			
0	0	2.7				X	
0	2.7	0			X		X
2.7	0	0					X



1) VPCtrl GSM 900 power level 5	2) VPCtrl GSM900 power level 19	3) VPCtrl GSM 1800/1900 power level 0	4) VPCtrl GSM 1800/1900 power level 15	5) 32.768 kHz Sleepclock 1.8Vpp	6) 32.768 kHz sinewave 1Vpp
7) RFBUSEN1	8) RFBUSCLK	9) RFBUSDATA	10) TXC GSM 900 power level 19	11) TXC GSM 900 power level 5	12) TXC GSM 1800/1900 power level 5
13)TXC GSM 1800/1900 power level 15	14) DET GSM 900 power level 5	15) DET GSM 900 powerlevel 19	16) DET GSM 1800/1900 power level 0	17) DET GSM 1800/1900 power level 15	18) TXP
19) TX I/Q	20) RX I/Q	21) RFCLK 26MHz 1.8Vpp	22) VTXB_900	23) 26MHz at B601	24) VBDET



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SCCE Training Group

Component finder
NPL-2 (6100)
24.10.2003

Version 2.0 Approved
(PCB) Version mx4_05

B		C184	08	C301	B6	C703	C4	G300	B4	R103	R6	R166	06	R350	I8	R710	I5	R821	D8	V315	K7
B200	M6	C185	M7	C302	09	C705	I6	G701	K3	R104	R6	R167	N6	R388	08	R711	K3	R822	D9	V318	M3
B601	H3	C200	K6	C303	08	C706	I6	L		R105	T8	R168	05	R420	K5	R713	I4	R823	E9	V319	M8
C		C201	K5	C304	M9	C709	I5	L100	S5	R106	05	R171	08	R422	J8	R717	I6	S		V801	C5
C100	F8	C202	K5	C306	Q5	C710	I5	L102	T7	R107	T6	R173	08	R426	K5	R720	G6	S300	D3	V802	D9
C101	S6	C203	M8	C310	A5	C711	I5	L103	T7	R109	R7	R200	K5	R450	P5	R721	G5	S301	F2	X	
C102	T7	C204	K6	C312	E3	C712	K3	L106	T6	R110	R7	R202	L9	R610	G3	R725	G5	S302	A6	X101	T6
C103	R7	C205	L5	C313	B5	C715	I4	L107	S5	R151	A5	R206	L9	R612	G3	R726	G6	T		X103	G8
C104	R7	C206	L6	C350	J9	C716	I4	L150	B5	R153	N7	R207	M5	R617	I3	R729	E9	T701	F6	X302	B7
C105	Q6	C207	L9	C352	F8	C717	I5	L151	E2	R155	R3	R300	N9	R623	I5	R731	J4	T702	I5	X387	Q7
C106	S5	C208	K6	C353	G8	C718	I5	L152	D2	R156	07	R301	J9	R625	I4	R801	C5	V		Z	
C107	S7	C209	M5	C400	M5	C721	G6	L153	R4	R158	08	R302	09	R626	G3	R802	C5	V100	T5	Z300	06
C108	S7	C210	N5	C401	M5	C722	F6	L260	I7	R159	N7	R303	Q7	R628	H5	R803	D5	V300	N8	Z601	D4
C109	S7	C211	L6	C402	L5	C723	F6	L261	J6	R160	07	R306	B5	R629	I4	R805	C8	V310	R4	Z602	F5
C110	T5	C212	P5	C403	N5	C731	G5	L262	I7	R162	N7	R308	F7	R630	I4	R817	C8	V311	R7	Z603	F4
C111	S7	C213	L5	C404	M5	C732	H5	L263	I7	R163	N6	R309	F7	R706	I5	R818	C8	V312	04	Z604	F4
C113	T6	C214	L6	C405	L5	C733	G6	L264	I7	R164	N6	R310	F7	R707	I6	R819	E8	V313	07	Z701	H6
C150	N7	C215	M8	C420	L5	C740	K4	L265	I8	R165	N6	R311	M9	R708	I6	R820	D8	V314	K5		
C152	N7	C218	K9	C426	K5	C741	K3	L300	N8												
C153	N7	C219	K6	C450	Q5	C801	E5	L351	Q8												
C154	R4	C220	M5	C451	Q5	C802	C5	L601	G4												
C155	N6	C221	J6	C454	P5	C803	C4	L602	G4												
C156	S8	C222	J7	C601	B4	C804	C5	L603	G5												
C157	T8	C223	J7	C602	C4	C805	B5	L604	G5												
C158	M6	C224	J7	C603	H3	C811	C5	L606	G4												
C159	N7	C225	J7	C605	I3	C812	I9	L607	G4												
C160	N6	C226	J7	C606	H3	C813	D5	L608	C4												
C161	N6	C227	J7	C607	G3	C814	C5	L705	G6												
C162	M6	C228	J8	C610	K4	C815	H7	L706	G6												
C163	06	C229	J8	C615	G3	C816	H9	L707	G5												
C164	N5	C230	J8	C620	G3	C817	H9	L708	G6												
C165	N5	C231	J8	C621	I3	C818	D8	L711	H5												
C166	M8	C232	J8	C622	I3	C819	B7	L712	F6												
C167	N5	C234	J8	C623	I4	C820	C9	L730	K4												
C168	N6	C235	L6	C624	H5	C821	D9	L801	D5												
C169	N6	C236	J8	C625	I4	C822	D9	L804	H8												
C170	N7	C237	J9	C626	G5	C824	E9	L805	I8												
C171	M7	C238	K6	C627	I3	C825	E6	L806	C9												
C172	N7	C239	K9	C628	I4	C826	B6	L807	D9												
C173	N7	C240	L9	C629	I5	C835	F8	N													
C174	M8	C241	M5	C630	F4	C836	F8	N100	T6												
C175	07	C242	L9	C631	F5	C837	F8	N150	06												
C176	08	C243	L5	C632	H3	C872	G3	N300	N9												
C177	E2	C260	I7	C633	I5	D		N350	F9												
C178	E2	C261	J5	C634	F4	D200	L7	N601	G4												
C179	M5	C262	I7	C635	I4	D400	M4	N801	D7												
C180	M5	C263	I7	C636	H3	D450	P4	R													
C181	07	C264	I7	C637	I4	F		R100	R6												
C182	07	C265	I8	C701	C4	F100	S4	R101	R7												
C183	07	C300	A6	C702	E5	G		R102	R7												